

PROCEEDINGS
OF THE
BIOLOGICAL SOCIETY OF WASHINGTON.

FOURTH LIST OF ADDITIONS TO THE FLORA OF
WASHINGTON, D. C.

BY THEO. HOLM.*

The present paper is supplemental to Prof. Lester F. Ward's 'Guide to the Flora of Washington and Vicinity.'† It constitutes the fourth addition, and I have followed the same principles of nomenclature and arrangement as in the above-cited work of Professor Ward. I have also, in accordance with my previous addition,‡ not only enumerated such species as are new to the flora, and which are marked with an asterisk, but have also included a number of the rarer species recorded from new localities.

In spite of the fact that comparatively few of the Washington botanists are interested in the local flora, we have, nevertheless, succeeded in accumulating a very considerable amount of material for the study of the geographical distribution of plants within the limits of the flora. It is very interesting to see that several of the plants that have been recorded as new in the later additions are only new so far as concerns Professor Ward's flora. Several of them were already recorded by Brereton in his Prodrômus,§ but not included in the list given by Professor Ward.

* Presented at a meeting of the Biological Society of Washington, November 30, 1895.

† Bulletin No. 22, U. S. National Museum, 1881.

‡ Holm, Theo. : Proc. Biol. Soc., vol. vii, 1892, pp. 105-132.

§ Brereton, John A.: *Floræ Columbianæ Prodrômus*. Washington, 1830.

These species belong almost exclusively to the fourth category, under which Professor Ward (l. c., p. 14) has designated a number of plants which he thought had either been exterminated or had accidentally disappeared since the publication of the Prodrromus. Some of these plants are now known to be quite abundant in certain localities; for instance, *Apocynum androsæmifolium*, *Rhexia mariana*, *Polygala verticillata*, *Polygonum tenue* and *Cyperus flavescens*.

This fact seems to show that the flora of the District is yet but imperfectly known. There are, indeed, many and most interesting localities that have not yet been explored, and I will merely recall the fact that the southern and southeastern part of the District is still almost unknown. There is that interesting locality where Mr. G. W. Oliver obtained so many rare plants, which was recorded in the third addition as "the vicinity of Silver Hill."

This locality comprises the large forests, with creeks and sphagnum swamps, which lie between Silver Hill post-office and Surattsville, Prince George's county, Md. A visit to these forests shows us only too clearly that there is certainly a good deal of work to be done before we should venture to declare that we know our local flora. We meet here with species which are either not recorded in Professor Ward's flora or only enumerated as rare and of which several have been observed to occur in the greatest abundance, such as *Ilex glabra*, *Rhyncospora cephalantha*, *Agrostis elata*, *Uniola gracilis*, *Aristida purpurascens*, *Xyris flexuosa*, etc. The same is the case with several other places which have only been lately explored. Brookland, for instance, is the home of twenty species of *Panicum*, several of which have never been noticed before, although they are very common; there grow, also, *Apocynum androsæmifolium*, *Sporobolus vaginæflorus* and *Agrostis elata* quite abundantly.

But, besides these truly indigenous species, I have also noted some others, which have been accidentally introduced—*e. g.*, *Tribulus maximus** and *Leptochloa mucronata*,† both of which appeared suddenly in the Agricultural grounds. *Leptochloa* was very abundant, with ripe seeds, and it may, therefore, also spread to other parts of the city and become a well-established citizen.

Among the species enumerated in the following list are several

* Found by G. H. Hicks.

† Found by the author.

which Professor Ward had considered so common that no special locality was recorded. Extended researches have, however, induced me to arrange some of these among the rarer plants, and I thought, also, that in this way a better idea of their distribution might be obtained.

3. Clematis Virginiana L.

Along the Canal road near the Eighth lock. G. H. Hicks.

10. Anemone nemorosa L.

Banks, Four-Mile Run. R. R. Gurley.

13. Ranunculus pusillus Poir.

A very large specimen was collected in a stagnant pool by Piney Branch, at the north end of Seventeenth street. G. H. Hicks.

26. Aconitum uncinatum L.

Near Chevy Chase. G. H. Hicks.

40. Papaver dubium L.

Bank of Potomac above Rosslyn, Va., near the Seventh lock along the Canal road. G. H. Hicks.

45. Fumaria officinalis L.

Along Bates road near Bunker Hill. The author.

47. Nasturtium sylvestre R. Br.

Potomac flats near the Seventh lock. G. H. Hicks.

51. Nasturtium Armoracia Fries.

Along a ditch near Terra Cotta, escaped. The author.

55. Arabis dentata T. & G.

Along the Canal road near the Seventh lock. G. H. Hicks.

61. Cardamine hirsuta L. (*C. intermedia* Horn.)

Rock Creek. G. H. Hicks. The Zoölogical Park; in full bloom the 10th of May, 1895. The author.

*** 62a. Cardamine parviflora L.**

Shaded woods in Brookland; in moist, rich soil near Terra Cotta. The author.

*** 62b. Cardamine silvatica Link.**

Terra Cotta swamp; Rock Creek. The author.

*** 62c. Cardamine Pennsylvanica Muhl.**

Meadow near Rosslyn. T. H. Kearney, Jr. Rock Creek near the Zoölogical Park; in creeks on the Virginia shore of the Potomac, one mile above Aqueduct Bridge. In flower the second week of May. The author.

It seems, according to the Synoptical Flora of North America,* that these species of *Cardamine* are not well understood in this country. The difficulty in distinguishing them is evidently due to insufficient European material for comparison. The name *Cardamine hirsuta* L. is very mislead-

* Vol. I, part I. Continued and edited by B. L. Robinson, 1895, page 158.

ing, and I have therefore added as a synonym *C. intermedia* Horn. This name is used by Professor Lange,* since Linnæus undoubtedly included Link's *sylvatica* under his *hirsuta*, until Hornemann separated them, naming the last of these '*intermedia*.' † They are very different from each other, and we add the following characters as supplemental to those already given in the Synoptical Flora (l. c.):

Cardamine hirsuta L. (*C. intermedia* Horn).

Basal leaves very numerous and persisting for a long time, large and forming a dense rosette; they are most often smooth; the terminal leaflet is larger than the lateral ones, orbicular or reniform. Flowering stems, several, simple or with a few branches, ascending from a decumbent base. The uppermost pods surmount the flowering part of the raceme.

This species is said to be "abundant about Washington, D. C.," which is evidently a mistake. It might have been confounded with *C. sylvatica* Link.

Cardamine parviflora L.

The basal leaves are few in number and early fading; the plant is strictly annual; otherwise the description in the Synoptical Flora (l. c.) corresponds very well to this species.

Cardamine silvatica Link.

This species is not mentioned in the Synoptical Flora. The basal leaves are few, early fading; those of the stem numerous, with large and broad divisions, the margin dentate. The pods are borne on more or less horizontal pedicels, and the uppermost ones are hardly surpassing the flowering part of the raceme. The plant is most often biennial in the vicinity of Washington, but occurs also as a perennial in Europe.

63. Dentaria heterophylla Nutt.

The Zoölogical Park. The author.

***63a. Dentaria cardiophylla** Robinson.

Described in the Synoptical Flora (l. c., p. 155).

Collected in Rock Creek by George R. Vasey.

72. Camelina sativa (L.) Crantz.

Near Rosslyn, Va. T. H. Kearney, Jr.

***77a. Lepidium Draba.**

Lincoln Park. A. G. Maesius.

80. Helianthemum Canadense Michx.

Sand hills near Terra Cotta. The author.

82. Viola lanceolata L.

Bladensburg. M. B. Waite.

90. Viola striata Ait.

Near Glen Echo, along the Canal road. G. H. Hicks. On the Virginia shore of the Potomac, two miles above Aqueduct Bridge. The author.

* Lange, Joh. Haandbog i den Danske Flora. Kjöbenhavn, 1886-'88, page 629.

† Hornemann, I. W. Oekonomisk Plantelære, 1821-'39, page 714.

94. *Viola tricolor* L., var. *arvensis* Ging, is *V. tenella* Muhl.
96. *Polygala incarnata* L.
Near Chevy Chase; Takoma. G. H. Hicks. In pine woods in several places around Brookland. The author.
- 99a. *Polygala Curtissii* Gr., var. *pycnostachya* Gr.
Near Carlins, Va.; Takoma. G. H. Hicks. Terra Cotta swamp; near Surattsville, Prince George County. G. W. Oliver and the author.
100. *Polygala ambigua* Nutt.
In a dry field along the Walker road near Surattsville. The author.
101. *Polygala verticillata* L.
Bunker Hill; Brookland. The author. Near Chevy Chase. G. H. Hicks.
- * 104a. *Saponaria Vaccaria* L.
Along the railroad track near University Station; in bloom third week of May, 1894. The author.
106. *Silene nivea* D. C.
Bank of Potomac, two miles above Aqueduct Bridge, Va. G. H. Hicks.
108. *Silene Armeria* L.
Among wheat near Garrett Park. The author.
122. *Anychia dichotoma* Michx.
Open places in the pine woods around Brookland. The author.
145. *Linum striatum* Walt.
Very abundant in Terra Cotta swamp, near the railway track. The author.
149. *Geranium columbinum* L.
Hillside near Aqueduct Bridge, on the Virginia shore. The author.
- 158a. *Ilex glabra* (L.) Gr.
Abundant in woods along the Walker road between Camp Spring P. O. and Surattsville. G. W. Oliver, W. T. Swingle, and M. B. Waite.
161. *Ilex lævigata* Gr.
With the preceding.
174. *Acer saccharinum* Wang.
This species has spread from the city parks to the woods between Eckington and the Catholic University. The author.
- 194a. *Trifolium medium* L.
Reported by Mr. G. B. Sudworth and published in the Third Addition to the Flora of the District; not this species, but merely a form of *T. pratense* L.
216. *Desmodium ciliare* D. C.
Common in open pine woods, Brookland. The author.
217. *Desmodium Marilandicum* Boott.
Very scarce in dry fields, Brookland. The author.
230. *Clitoria Mariana* L.
Near Carlins, Va., near Fort Reynolds, Va. G. H. Hicks.

234. Phaseolus perennis Walt.

Near Carlins, Va., and near Fort Reynolds. G. H. Hicks.

250. Spiræa Aruncus L.

Very common near Garrett Park. The author.

256. Rubus hispidus L.

Exceedingly abundant in the swamps near Surattsville. W. T. Swingle, M. B. Waite and the author.

259. Rubus cuneifolius Pursh.

Dry hillside near Silver Hill P. O. The author.

270. Poterium Canadense B. & H.

Terra Cotta swamp. The author.

272. Rosa setigera Michx.

Along Rock Creek below Pierce's Mill. G. H. Hicks.

278. Pirus coronaria L.

South Brookland. Robert Ridgway.

295a. Ribes floridum l'Her.

Near the Baptist Church in Brookland, 1895. Now destroyed. The author.

300. Drosera rotundifolia L.

Common in swamps between Camp Spring P. O. and Surattsville. G. W. Oliver and the author.

304. Proserpinaca palustris L.

Not common. One mile above Glen Echo. T. H. Kearney, Jr.

304a. Callitriche Austini Eng.

Several places in the woods around Brookland. The author. It is evidently not rare, but overlooked. It grows in deep shade on black, rich soil.

305. Callitriche verna L.

Pool near Piney Branch, at the north end of Seventeenth street. G. H. Hicks.

316a. Oenothera pumila L.

Near Surattsville. W. T. Swingle and M. B. Waite.

317. Oenothera sinuata L.

A single specimen was collected in a dry field, South Brookland. The author.

327. Hydrocotyle ranunculoides L.

Under Bennings bridge. The author. Above Rosslyn. G. H. Hicks.

339. Chaerophyllum procumbens Crantz.

Not common, and has only been observed along the Potomac shore, on both sides of the river, but especially on the Virginia side. It has been collected on the Maryland side along the Canal, near the Seventh lock, by G. H. Hicks.

345. Pastinaca sativa L.

Clover field in South Brookland; along the electric car track near Eckington. The author.

* **348a. *Caucalis Anthriscus* Huds.**

A single specimen near Bathing Beach, back of the Monument grounds; July 5, 1894. G. H. Hicks.

351. *Aralia nudicaulis* L.

High Island. T. H. Kearney, Jr. Blagden's Run. G. H. Hicks.

384. *Fedia olitoria* Vahl.

Island of the Potomac, near the Seventh lock. G. H. Hicks. South Brookland. The author.

The specimens which Mr. Hicks has collected were rather robust for the typical species. The corolla was, however, light blue. Therefore I have not hesitated in recording them under this species.

390b. *Eupatorium semiserratum* D. C.

Great Falls. The author.

391. *Eupatorium hyssopifolium* L.

Woods near Glen Echo. G. H. Hicks. Brookland. The author.

391a. *Eupatorium altissimum* L.

Island in Potomac, near the Seventh lock. G. H. Hicks.

400. *Eupatorium aromaticum* L.

Rock Creek. G. H. Hicks.

402. *Mikania scandens* L.

Swamp between Eckington and the Catholic University. Robert Ridgway.

426. *Sericocarpus solidagineus* Nees.

Rather rare. Dry field, Surattsville. The author.

430. *Aster concolor* L.

Surattsville. The author.

494a. *Bidens connata* Muhl., var. *comosa* Gray.

Bank of Potomac, opposite mouth of Cabin John's Run, Md. G. H. Hicks. Ditch near Metropolis View; along a creek near the Catholic University. The author.

497a. *Galinsoga parviflora* Cav.

Near Bureau of Engraving and Printing. G. H. Hicks. Massachusetts avenue, between Fourteenth and Fifteenth streets. The author.

504a. *Senecio vulgaris* L.

Potomac flats near Bureau of Engraving and Printing. G. H. Hicks.

536. *Tragopogon porrifolius* L.

Near Eckington, escaped. The author.

539. *Lobelia puberula* Michx.

Rock Creek. G. H. Hicks. Swamp near Silver Hill. The author.

542. *Specularia perfoliata* A. DC.

A form without corolla is common in shaded woods around Brookland. The author.

543. *Campanula Americana* L.

Island of the Potomac, opposite the Eighth lock. G. H. Hicks.

543a. *Campanula aparinoides* L.

Terra Cotta swamp; quite abundant among *Lilium superbum*. The author.

551. *Gaultheria procumbens* L.

Burnt Mills; near Surattsville. M. B. Waite.

564. *Pyrola secunda* L.

Garrett Park. P. H. Dorsett.

565. *Pyrola chlorantha* Swtz.

Garrett Park. P. H. Dorsett.

566. *Pyrola elliptica* Nutt.

Garrett Park. The author.

567. *Pyrola rotundifolia* L.

Near Chevy Chase. G. H. Hicks.

569. *Monotropa Hypopitys* L.

The typical form is not rare in the District and seems to correspond exactly to the European plant. But a very peculiar form has also been collected, which differs from the description given of *M. Hypopitys* so much that it seems to represent a distinct species. It is, for instance, of a red, almost blood-red, color and densely pubescent all over. I have secured some material of the European plant, preserved in alcohol, and it is my intention to give a detailed account of the characters, morphological and anatomical, so as to decide whether we shall consider this plant to represent a species or only a variety. It has been collected in Rock Creek by G. H. Hicks and near Arundel (Anne Arundel County, Md.), by M. B. Waite.

570. *Dodecatheon Meadia* L.

Near Cabin John's Bridge. A. J. Pieters.

585a. *Apocynum androsæmifolium* L.

Very common in low grounds in South Brookland. The author.

589. *Asclepias rubra* L.

Sphagnum swamp near Surattsville. J. Krause and the author.

594. *Asclepias obtusifolia* Michx.

Not common. Brookland. The author.

595. *Asclepias variegata* L.

The Zoölogical Park; Blagden's mill-race. G. H. Hicks. Brookland. The author.

597. *Asclepias verticillata* L.

In pine woods at Brookland. The author.

605. *Gentiana ochroleuca* Froel.

Blagden's Run; Glen Echo. G. H. Hicks. Brookland. The author.

608. *Phlox paniculata* L.

Near Glen Echo. G. H. Hicks.

615a. *Phacelia Covillei* Wats.

Island near the Seventh lock. G. H. Hicks. Very abundant on High Island. M. B. Waite.

617. *Phacelia parviflora* Pursh.

About two miles above Aqueduct Bridge, on the Virginia shore of the Potomac. The author. Along the Canal road near the Seventh lock. G. H. Hicks.

623. *Myosotis laxa* Lehm.

In a pool near the north end of Seventeenth street and Piney Branch. G. H. Hicks.

634. *Ipomæa lacunosa* L.

The Canal road near the Seventh lock. G. H. Hicks.

635. *Convolvulus spithamæus* L.

Very abundant in open thickets in North and South Brookland. The author. Ivy City. T. H. Kearney, Jr.

637. *Convolvulus arvensis* L.

Along the electric car track between Eckington and the Catholic University. The author.

643. *Physalis pubescens* L.

Bank of the Potomac back of the Twelfth lock. G. H. Hicks.

643a. *Physalis Philadelphica* Lam.

Bank of Potomac opposite mouth of Cabin John's Run. G. H. Hicks.

657. *Pentstemon lævigatus* Soland.

Common in South Brookland. The author.

660. *Herpestis nigrescens* Bth.

Great Falls (Virginia side). M. B. Waite.

666. *Veronica Americana* Schwein.

Potomac Boat Club landing, Virginia. G. H. Hicks.

669. *Veronica serpyllifolia* L.

Woodley Park. The author.

671a. *Veronica hederifolia* L.

The Virginia shore of the Potomac, two miles above Aqueduct Bridge. The author.

680. *Melampyrum Americanum* Michx.

Takoma Park. G. H. Hicks.

681. *Orobanche minor* L.

Magnolia Run. G. H. Hicks.

682. *Aphyllon uniflorum* Gr.

North Brookland. The author.

686. *Utricularia gibba* L.

Opposite the Eleventh lock, Maryland. G. H. Hicks.

724. *Monarda punctata* L.

Not common. Rock Creek near Brightwood. G. H. Hicks. North Brookland. The author.

725. *Lophanthus nepetoides* Bth.

Bank of the Potomac near the Twelfth lock, Maryland. G. H. Hicks.

732a. *Scutellaria parvula* Michx.

On dry, sandy soil, North and South Brookland. The author.

745. *Plantago Patagonica* Jacq. var. *aristata* Gr.

East Brookland; around Allentown, Prince George County, Md. The author. Near Fifteenth and W streets. G. H. Hicks. Near Chevy Chase. M. B. Waite.

747. *Amarantus paniculatus* L.

Near Pierce's mill. G. H. Hicks. Around Silver Hill, Prince George County. The author.

749. *Amarantus albus* L.

Near Bureau of Engraving and Printing. G. H. Hicks.

***769a. *Polygonum Muhlenbergii* Watson.**

Potomac flats, opposite the Eighth lock, Maryland. G. H. Hicks.

773a. *Polygonum tenue* Michx.

Abundant in dry fields, Brookland; sandy soil near Terra Cotta. J. Krause and the author.

780. *Rumex Britannicus* L.

Potomac flats near Rosslyn, Va. G. H. Hicks.

781. *Rumex verticillatus* L.

With the preceding. G. H. Hicks.

800. *Euphorbia commutata* Engelm.

Glen Echo. T. H. Kearney, Jr. and G. H. Hicks.

843. *Quercus ilicifolia* Wang.

Abundant near Laytonsville and Goshen, Montgomery County, Md. George B. Sudworth.

901. *Habenaria tridentata* Hook.

Near Chevy Chase. G. H. Hicks. North Brookland. The author.

904. *Habenaria lacera* R. Br.

Terra Cotta swamp. The author. Swamp near Surattsville. J. Krause and the author.

911. *Pogonia ophioglossoides* Nutt.

Sphagnum swamp near Surattsville. W. T. Swingle and M. B. Waite.

912. *Pogonia verticillata* Nutt.

North Brookland; near Terra Cotta. The author.

922. *Cypripedium pubescens* Willd.

Blagden's Mill, Rock Creek. R. R. Gurley. Burnt Mills. M. B. Waite. South Brookland. The author.

925. *Aletris farinosa* L.

Very common around Surattsville. The author. Near Arundel, Md. M. B. Waite.

955. *Trillium sessile* L.

Island near the Seventh lock. G. H. Hicks.

957. *Veratrum viride* Ait.

Magnolia Run. L. H. Dewey. Garrett Park. The author.

***962a. *Muscari racemosa* Nutt.**

Island near the Seventh lock. G. H. Hicks.

982. *Commelina hirtella* Vahl (*C. erecta* L)
Bennings Bridge. The author.
- *982a. *Commelina communis* L.
Magnolia Run, Rock Creek Park. G. H. Hicks.
983. *Commelina Virginica* L.
Flats of the Potomac under Chain Bridge. The author.
985. *Xyris flexuosa* Muhl.
Along the railroad track near Carlins, Va. G. H. Hicks. Sphagnum
swamp in the woods near Surattsville. The author.
- 988a. *Cyperus aristatus* Rottb. (*C. inflexus* Muhl.).
Muddy bottom of Potomac, opposite mouth of Cabin John Run, Md.
G. H. Hicks.
998. *Cyperus retrofractus* Torr.
South Brookland. The author.
- *999a. *Kyllinga pumila* Michx.
Holmead swamp. M. B. Waite.
- *1000a. *Hemicarpha subsquarrosa* Nees.
Potomac flats opposite the Ninth lock, Md. G. H. Hicks.
- *1004a. *Eleocharis intermedia* Schult.
Opposite the Eighth lock, Md. G. H. Hicks.
1007. *Scirpus planifolius* Muhl.
On dry, grassy slopes in the Zoölogical Park. The author.
1010. *Scirpus debilis* Pursh.
Potomac flats opposite the Ninth lock, Md. G. H. Hicks. Sphagnum
swamp near Silver Hill. The author.
1017. *Eriophorum Virginicum* L.
Sphagnum swamp near Surattsville. The author.
1019. *Fimbristylis capillaris* Gr.
Along the railroad track near Carlins, Va. G. H. Hicks. North
Brookland. A. J. Pieters.
1020. *Rhynchospora alba* Vahl.
Sphagnum swamp near Surattsville. The author.
- 1021a. *Rhynchospora cephalantha* Gr.
Common in swamps around Surattsville and Silver Hill. The author.
1024. *Scleria pauciflora* Muhl.
Grassy knoll near Aqueduct Bridge on the Virginia shore of the Poto-
mac. The author.
1025. *Carex polytrichoides* Muhl.*
Magnolia Run, Rock Creek Park; Sphagnum swamp near Suratt-
ville. The author.
1026. *Carex Willdenovii* Schk.
Bunker Hill; Corcoran's woods. The author.

* Professor Charles F. Wheeler has kindly revised the entire collection of the genus *Carex* recorded here.

- * **1030a.** *Carex conjuncta* Boott.
High Island. The author.
- * **1030b.** *Carex alopecoidea* Tuckerm.
Low meadow near the Insane Asylum. The author.
- 1031.** *Carex stipata* Muhl.
Rock Creek woods. G. H. Hicks. Near Surattsville. The author.
- * **1035a.** *Carex Muhlenbergii* Schk., var. *enervis* Boott.
High Island and along the Canal road; not rare. G. H. Hicks and the author. Bunker Hill. The author.
- 1040.** *Carex lagopodioides* Schk.
The name should be changed to *C. tribuloides* Wahlbg.
- * **1040a.** *Carex tribuloides* Wahlbg., var. *reducta* Bailey.
Common in shady places around Brookland; Insane Asylum. The author.
- 1047.** *Carex torta* Boott.
Cabin John Run. G. H. Hicks.
- 1051.** *Carex Shortiana* Dew.
High Island, near the river shore. The author.
- 1055.** *Carex glaucodea* Port.
Bunker Hill. Open woods in North Brookland. The author. Along the towpath, C. and O. Canal, near Georgetown. T. H. Kearney, Jr.
- 1056.** *Carex pallescens* L.
Grassy knoll near Aqueduct Bridge, on the Virginia shore of the Potomac. The author.
- 1063.** *Carex platyphylla* Carey.
Shaded places on the rocks near Aqueduct Bridge, on the Virginia shore of the Potomac. The author.
- 1065.** *Carex retrocurva* Dew.
On the rocks near Aqueduct Bridge, on the Virginia shore of the Potomac. The author.
- 1067.** *Carex laxiflora* Lam.
The type seems to be rare; near the Insane Asylum. Lester F. Ward. Brookland. The author.
- * **1072a.** *Carex laxiflora* Lam., var. *divaricata* Bailey.
Near Washington, D. C. George Vasey. Rock Creek. G. H. Hicks.
- 1072b.** *Carex laxiflora* Lam., var. *patulifolia* Carey.
Common in the woods around Brookland. The author.
- 1074.** *Carex oligocarpa* Schk.
Rare. On shaded rocks on the Virginia side of the Potomac near Aqueduct Bridge. The author.
- 1075.** *Carex umbellata* Schk.
Bunker Hill; sandy hills around Terra Cotta. The author.
- 1076.** *Carex Emmonsii* Dew.
In Professor Ward's catalogue is *C. varia* Muhl.

*1078a. *Carex communis* Bailey.

This species has undoubtedly been observed before in the District, but confounded with *C. Pennsylvanica* Lam. It is closely related to this last, from which it differs, however, by its cespitose growth without stolons. The scales of the staminate and fertile inflorescences are usually purplish, but lighter than those of *C. Pennsylvanica*. It is very common on the rocks of the Potomac shore, Virginia. The author.

*1078b. *Carex communis* Bailey, var. *Wheeleri* Bailey.

With the preceding. The author.

1080. *Carex pubescens* Muhl.

Cabin John Run; the Zoölogical Park. The author.

1081. *Carex prasina* Vahl. (*C. miliacea* Muhl.).

Woodley Park; the Potomac shore, three miles above Aqueduct Bridge, Va. The author.

1090. *Carex lupulina* Muhl.

Near Rosslyn, Va.; Potomac flats. G. H. Hicks. The Zoölogical Park. William Hunter.

1091. *Carex folliculata* L.

Takoma. T. H. Kearney, Jr. Magnolia Run, Rock Creek Park; abundant in the woods along Walker road, between Camp Spring P. O. and Surattsville. The author.

1092. *Carex squarrosa* L.

Near Chevy Chase circle. G. H. Hicks. Garrett Park. The author.

1093. *Carex stenolepis* Torr.

Common in South Brookland. The author.

1101. *Sporobolus asper* Beauv.

High Island. L. H. Dewey.

1101a. *Sporobolus vaginæflorus* Torr.

Common in low grounds, Brookland; the lawns in the Smithsonian Park, and around the Catholic University. The author.

*1104a. *Agrostis elata* Trin.

Common in pine woods, Brookland; also in the deciduous forests along Walker road, near Silver Hill, Surattsville, etc. The author.

1107. *Muhlenbergia sobolifera* Trin.

Woods in North Brookland, but very scarce. The author.

1114. *Calamagrostis Nuttalliana* Steud.

Takoma. F. L. Scribner, T. H. Kearney, Jr., and L. H. Dewey.

1119. *Aristida purpurascens* Poir.

Along the roads; very common near Allentown and Surattsville.

1125a. *Eatonia obtusata* Gr.

Dry fields, North Brookland. The author.

*1126a. *Eatonia Dudleyi* Vasey.

Brookland. Terra Cotta. The author. Rock Creek. L. H. Dewey.

This species is recorded in Professor Ward's Flora of the District as a slender wood form of *E. Pennsylvanica* Gr.

- * **1126b.** A hybrid between **Eatonia Pennsylvanica** Gr. and **Trisetum palustre** L.

Has been described by Dr. George Vasey,* who found several specimens of this peculiar form in a low meadow on the banks of Hunting Creek, near where it empties into the Potomac River, a mile below Alexandria, Va.

- 1136.** **Poa sylvestris** Gr.

High Island; on the Virginia shore of the Potomac near Aqueduct Bridge. The author.

- 1137.** **Poa flexuosa** Muhl.

The Zoölogical Park. The author.

- 1143.** **Eragrostis Purshii** Schrad.

Abundant along the railroad track between University Station and Terra Cotta. The author.

- 1153a.** **Bromus tectorum** L.

Near the Navy Yard. The author.

- 1158.** **Uniola gracilis** Michx.

Rock Creek. G. H. Hicks. Several places in the woods between Silver Hill and Surattsville. The author.

- 1172.** **Phalaris Canariensis** L.

Waste grounds south of the Bureau of Engraving. G. H. Hicks.

- 1172a.** **Phalaris arundinacea** L.

Ditch near Bates Road. The author.

- 1179.** **Panicum proliferum** Lam.

Very common along the streets in Brookland. The author.

- * **1180a.** **Panicum capillare** L., var. **minima** Engelm.

Common on dry, sandy soil in Brookland; near Silver Hill. The author.

- * **1183a.** **Panicum commutatum** Schultes.

Extension of Kenesaw Avenue, Rock Creek. G. H. Hicks. Takoma; Four Mile Run. T. H. Kearney, Jr. Common in Brookland; near Surattsville; Terra Cotta. The author.

- 1185.** **Panicum microcarpon** Muhl.

Takoma. T. H. Kearney, Jr. Brookland. The author.

- 1186.** **Panicum viscidum** Ell.

Brookland; Terra Cotta swamp near the railroad track. The author.

- 1187.** **Panicum scoparium** Lam.

Great Falls. F. L. Scribner.

- 1187a.** **Panicum sphærocarpon** Ell.

Bunker Hill; North Brookland. The author. Takoma. T. H. Kearney, Jr.

- * **1188a.** **Panicum ramulosum** Michx.

Sphagnum swamp near Takoma. F. L. Scribner and T. H. Kearney, Jr.

* Botanical Gazette, vol. ix, 1884, p. 165.

- 1188*b*. *Panicum nitidum* Lam.
North Brookland; Bunker Hill. The author.
- * 1188*c*. *Panicum lanuginosum* Ell.
Brookland; Garrett Park. The author.
- * 1188*d*. *Panicum pubescens* Lam.
Brookland. The author.
1197. *Tripsacum dactyloides* L.
Near Silver Hill. The author.
1198. *Erianthus alopecuroides* Ell.
Takoma. F. L. Scribner. Field between Jackson City and Arlington,
Va. G. H. Hicks.
1219. *Woodwardia angustifolia* Smith.
Very abundant in the woods near Surattsville. The author.
1229. *Aspidium cristatum* Swtz.
Numerous fruit-bearing specimens were observed near Chevy Chase.
G. H. Hicks.
1236. *Cystopteris fragilis* Bernh.
Flats under Chain Bridge. The author.
1240. *Lygodium palmatum* Swtz.
Near Arundel, Md. M. B. Waite.
1245. *Botrychium ternatum* Swtz., var. *dissecta* Milde.
Near Chevy Chase circle. G. H. Hicks. Along Bates road near Terra
Cotta swamp. The author.
1247. *Ophioglossum vulgatum* L.
In the woods near Garrett Park. M. B. Waite.
1252. *Selaginella rupestris* Spring.
Rediscovered near Great Falls by M. B. Waite.
1253. *Selaginella apus* Spring.
Swamp near Silver Hill. The author.